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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,598		09/28/2001	Takeshi Fujiyama	1752-0147P	2675
2292	759	0 08/20/2003		4	
BIRCH STEWART KOLASCH & BIRCH				EXAMINER	
PO BOX FALLS C		H, VA 22040-0747	ROBERTSON, JEFFREY		
				ART UNIT	PAPER NUMBER
				1712	
			DATE MAILED: 08/20/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

			125 - 2	~ ~
		Application N .	Applicant(s)	
		09/937,598	FUJIYAMA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Jeffrey B. Robertson	1712	
Period fo	The MAILING DATE of this c mmunicati n app or Reply	pears n the cover sheet with	the corresp ndence address	
THE I - External after - If the - If NO - Failur - Any r	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repl' period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ad patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a repl y within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH . cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communic	cation.
1)🖂	Responsive to communication(s) filed on 28 S	September 2001 .		
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	is action is non-final.		
3) <u>□</u> Dispositi	Since this application is in condition for allowatelosed in accordance with the practice under on of Claims	ance except for formal matte Ex parte Quayle, 1935 C.D.	ers, prosecution as to the mer 11, 453 O.G. 213.	its is
4)🖂	Claim(s) <u>1-6</u> is/are pending in the application.			
. •	4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5)🖂	Claim(s) <u>1-3</u> is/are allowed.			
6)⊠	Claim(s) 4-6 is/are rejected.	•		
7)	Claim(s) is/are objected to.	•		
8)□	Claim(s) are subject to restriction and/o	r election requirement.		
	on Papers	•		
9)🖂 🗆	The specification is objected to by the Examine	r.		·
10)[] 7	Γhe drawing(s) filed on is/are: a)□ acceμ	oted or b) objected to by the	Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	•
11)[] 7	The proposed drawing correction filed on	is: a)□ approved b)□ disa	approved by the Examiner.	
•	If approved, corrected drawings are required in rep	bly to this Office action.		
12)[] 1	The oath or declaration is objected to by the Ex	aminer.		
Priority u	nder 35 U.S.C. §§ 119 and 120			
13)⊠	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)⊠ None of:			
	1. Certified copies of the priority documents	s have been received.		
	2. Certified copies of the priority documents	s have been received in App	lication No	
	Copies of the certified copies of the prior application from the International Bure the attached detailed Office action for a list of the act	ity documents have been re eau (PCT Rule 17.2(a)).	ceived in this National Stage	
	cknowledgment is made of a claim for domestic			ation).
a)	☐ The translation of the foreign language procedure.cknowledgment is made of a claim for domestic	visional application has beer	n received.	,
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) 4.5	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)	_·
S. Patent and Tra PTO-326 (Rev		ion Summary	Part of Paper No. 4	

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 3/30/99. It is noted, however, that there is no copy of the certified priority document in the application file. The examiner has tried to retrieve a copy of the priority document on line, but there is no copy available. Applicant is reminded that the examiner cannot allow the case without a certified copy of the priority document.

Information Disclosure Statement

2. It is noted that in the information disclosure statement submitted on December 20, 2001, the examiner has crossed out the Japanese abstracts listed under the foreign patent documents section and has cited the abstracts on the PTO-892 form. In the future, English abstracts should be cited under the "Other Documents" section, because they are not the Patent documents themselves.

Specification

3. The abstract of the disclosure is objected to because it is two paragraphs. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 4-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

For claim 4, the X_1 variable is undefined. A definition of this variable must be included in the claim to allow one of ordinary skill in the art to know the metes and bounds of the claim.

For claim 5, there is a lack of antecedent basis for "the terminal OH or OM group". It is unclear what terminal group applicant is referring to since no such group has been referred to previously in the claims.

Allowable Subject Matter

- 6. Claims 4-6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 7. Claims 1-3 are allowed.
- The following is a statement of reasons for the indication of allowable subject matter: The closest prior art is Namba et al. (U.S. Patent No. 6,303,268). Namba teaches resist compositions containing ladder-type polyorganosilsesquioxanes, which may be end-capped with disiloxanes. Namba also teaches the protection of side chain groups with tert-butyl groups. Namba fails to teach or suggest a structure of applicant's general formula (1), where the residue of the disiloxanes is reacted to give a t-BOC group. The protected groups are on the methacrylate side chains or the silsesquioxane backbone. There is no indication in Namba that there are free terminal –OH groups after the end-capping treatment with the disiloxanes.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takemura et al. (U.S. Patent No 5,612,170), Lin et al. (U.S. Patent No. 6,210,856), and Nakashima et al. (U.S. Patent No. 6,309,796) are cited for general interest.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey B. Robertson whose telephone number is (703) 306-5929. The examiner can normally be reached on Mon-Fri 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert A. Dawson can be reached on (703) 308-2340. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Jeffrey B. Robertson Primary Examiner

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JBR August 11, 2003